APPENDIX A

ABBREVIATIONS

APPENDIX A

A.1 ACRONYMS

AAP Attack Assessment Program ADP Automated Data Processing

AOR area of operation

ASCII American Standard Code for Information Interchange

BCN Base Complex Number CEF Civil Engineering Files

CESP Civil Engineering Support Plan

CESPG Civil Engineering Support Plan Generator

CINC Commander-in-Chief COA course of action

COE Common Operating Environment
COTS Commercial Off-The-Shelf
CSM Computer System Manual
CYST CD Country/State Code

DESU Deployed Eng Sensitive Unit DOD Department of Defense

DSSO Defense Systems Support Organization GCCS Global Command and Control System

GEO GEOLOC

GEOLOC geographical locations GUI graphical user interface

HN Host Nation

HNS Host Nation Support IAW In Accordance With

JDSSC Joint Data Systems Support Center

JEPES Joint Engineer Planning and Execution System JOPES Joint Operation Planning and Execution System

JOPS Joint Operation Planning System

JS Joint Staff

LAD Latest Arrival Date

LOGSAFE Logistics Sustainment Analysis and Feasibility Estimator

LSA Logistics Sustainability Analysis

MB megabyte

M-Day Mobilization Day
MTONS Measurement Tons
NUC Non-Unit Cargo
OPLAN Operation Plan
PAX Passengers

PC personal computer
PL Procedural Language
POD Port of Debarkation
POE Port of Embarkation

POL petroleum, oil and lubricants RCD Required Completion Date RDBMS Relational Database Management System

RPI Real Property Inventory S&M scheduling and movement

SIPRNET Secret Internet Protocol Router Network

SQL Structured Query Language

STONS Short Tons

TDBM Technical Database Manager

TOE Table of Organization and Equipment

TOTPOP Total Population

TPFDD Time-Phased Force and Deployment Data

TUCHA Type Unit Characteristics
TUG Terminal Users Guide
UIC Unit Identification Code

ULC Unit Level Code
ULN Unit Line Number
UM Users Manual
U.S. United States
UTC Unit Type Code

WWMCCS Worldwide Military Command and Control System

A.2 Screen Terms

ASSET SRC IND

The following identifies the abbreviated terms used when running JEPES.

ALT CNSTR SERV Alternate Constructing Service
ALT PROJ TYPE Alternate Project Type
ASSETHN Asset Host Nation

ASSETUS Asset U.S.

ASSETWAR Asset and War Damage Factor

AUST. CMPT Austere Component
BACKUP Back-Up Supply
BASEFAC Base Facility

BASFCCPY Base Facility Construction Policy

BCKUPSUP Back-Up Supply

BCMPLOC Base Complex Location

BSE-CMPLX-NBR Base Complex Number

BSE DOD CMP FAC NBR CAT

Base DOD Component Facility Number

Category

Asset Source Indicator

CARGO AGG. PD SEQ NO
Cargo Aggregation Period Sequence Number
CESPG
Civil Engineering Support Plan Generator

CLIM FIRS FLAG Climatic Factors Flag
CMPNT COMPONENT COMPONENT COUNTRY CD OF ORIGIN Country Code of Origin

COMP Component

COMPEXC Component Exception Period

CONSTRNG SERV Constructing Service CONTR.AFFIL. Contractor Affiliation

CONTR ENG PRTY Contractor Engineering Priority Code

CYST-CD Country/State Code

DELAY DYS REQ Delay Days Required

DEPENG Deployed Engineering Unit

DESTLOC Destination Location

DMND COMPLN DATE Demand Completion Date

DOD_FAC_CAT_CD DOD Facility Category Code

ECAPB Service Engineering Unit Capability

END OF ANAYS PD End-of-Analysis Period

ENGNG FORCE UTILZN INDR Engineering Force Utilization Indicator Code ENGNG RSRC SEQ Engineering Resource Sequence Number

ENGSUP Engineering Support

ENGUNCA Engineering Unit Capability
EQUPLFC Equipment Planning Factor

FAC Facility

FACCAT Facility Category
FACCOMP Facility Component
FACILITY CAT CD Facility Category Code
FACOMPNT Facility Component
FAC PROJ CL Facility Project Class

FAC PROJ CLASS Facility Project Class

FAC PRTY SEQ NO Facility Priority Sequence Number

FAC PRTY TYPE Facility Priority Type
FACREQ Facility Requirements
FALTCD Facility Category Code
FCCTSUB Facility Category Substitute

FOLLOW_ON_CONSTRNG_SERV Follow-on Constructing Service Code

GEOLOC_CD Geographic Location Code
GNRLPLFC General Planning Factor

HN Host Nation
HNASSET Host Nation Asset

HN/CNTTR ENG AVAIL Host Nation/Contractor Engineer

Available

MAX AVAIL MNHRS/DAY

Maximum Available Man Hours Per

Day

MAX. FAC. QUANTITY Maximum Facility Quantity

MNHR CPBLTY
MTONS
Measurement Tons
NBR OF CMPNTS
NON-COMB-POP
Noncombatant Population

NUC Non-Unit Cargo
OPLAN Operation Plan
ORIGLOC Originating Location

PCT Percent

PLANG FACTOR ECH. Planning Factor Echelon PLANG FAC TYPE Planning Factor Type

PLFACPOL Plan Facility Construction Policy
PLFCCN Plan Facility Construction Policy
PLNINPRE Planner Input Requirement

PLNGFACT Planning Factors
PLNGFCTR Planning Factors
POD Port of Debarkation
POE Port of Embarkation
SERV-COMP CODE Service Component Code
SERVCOMP CD Service Component Code
START OF ANAYS PD Start of Analysis Period

STONS Short Tons

SUPP.STR.INDEX Support Structure Index

TPFDD Time-Phased Force Deployment Data

TUCHA Type Unit Characteristics
UNIT-ALLOC-CONSTRN Unit Allocated Construction

UNITEQUI Unit Equipment UNIT_VEHI Unit Vehicle

UIC Unit Identification Code

ULCUnit Level CodeUOMUnit of MeasureUTCUnit Type Code

WARDAMHN War Damaged Factor Host Nation

APPENDIX B

TERMS

APPENDIX B

TERMS

Asset The JCS category code aggregation of real property at a base

complex.

Austere Component The smallest component to satisfy a requirement.

Base Complex A group of geographically related installations mutually supportive

of a single operational mission, developed by planner review of designated geographical locations (GEOLOC), and the existing

base facilities at those locations.

Beddown Project The most expedient means of satisfying a facility requirement.

Component Specified materials and manhours (by horizontal, vertical, and

other skill types) used in the construction of facilities.

C-DAY The day deployment movement begins.

Emergency Repair Temporary repairs necessitated by war damage to facilities.

Performed the day on which war damage occurs and required restoration according to a date specified on the Component file.

Follow-on Project Project to permanently replace a beddown project or to restore an

emergency repair project.

Geoloc Geographic location of a facility asset or unit destination.

H-DAY The day hostilities start.

Horizontal Engineer Engineer responsible for constructing horizontal objects such as

roads, railroads, runways, and bridges.

JEPES PRINT KEEP A UNIX environment variable used to define whether files printed

by JEPES should be kept after printing or deleted. Acceptable

values are: K or k -- Keep D or d -- Delete

JEPES_USER_DIR A UNIX environment variable used to define the directory path

where the JEPES user's subdirectories and files are located.

New Construction New Facility built to satisfy a requirement necessary for an arriving

or in theater unit.

Non-Unit Cargo The equipment and supplies requiring transportation to an area of

operations, other than those identified as the unit equipment or

accompanying supplies of a specific unit.

Measurement Tons The volume or cubical space of a component.

Planning Factor Amount of specific facility (or utility service) to be provided per

person, base, vehicle, aircraft, or other unit of measure.

Project A facility construction or repair task resulting from an insufficient

level of an available facility asset on a specific base.

Requirement Necessity for a facility. May be totally or partially satisfied by an

existing facility. An unsatisfied requirement is converted to a project by the assignment of an appropriate component.

Restoration Project Permanent repairs to a war-damaged facility.

Short Tons The actual weight of a component.

Unit Type Code Categorizes the types of units that compose the OPLAN force list.

Vertical Engineer Engineer responsible for constructing vertical objects such as

buildings and towers.

APPENDIX C

ERROR MESSAGES

APPENDIX C

ERROR MESSAGES

There are many error messages generated by the JEPES Ada software. An attempt is made to list some of these errors and a possible method of action to solving the problem. The solutions provided can be only a guide, since only the user would know what data and options were used and could better understand what course of action to take. As mentioned in Paragraph 5.4, Recovery from errors, malfunctions and emergencies, the errors listed are in the errors file only and would be the first error that gets logged. The remaining errors are the same error being propagated up through the Ada code. Paragraph 5.4 contains some examples of error files and more information concerning error and warning messages.

Note: Many errors would be considered "internal error messages and should not normally be issued." For these errors, a user should contact the GMC-Pentagon Help Desk. The Help Desk may be contacted at:

DSN Voice	225-0671	Comm Voice	(703)695-0671
DSN Fax	224-9082	Comm Fax	(703)614-9082
Dsn Fax (Secret)	225-0025	Comm Fax (Secret)	(703)695-0025

Home Page http://nmcc20a.nmcc.smil.mil

email (internet) gccshelp@ncr.disa.mil

email (sipernet) dj9help1@nmcc20a.nmcc.smil.mil

GCCS News Group nmcc.local.help

Errors have been divided into general and specific categories. Specific errors will tell the user such information as which table and/or element is in error. General errors state that a table (or file, etc.) is in error but does not state the table name. However, error messages list the name of the Ada routine where the error had occurred. This information **may** help the user. For example, Figure 5.4-1 shows Operation_View as the Ada routine where the error first occurred. Therefore, the error is with the Operation table.

Note: Database Analysis function should be executed before running Requirements Generation and other JEPES functions. This will reduce/eliminate some of the following errors.

GENERAL ERRORS

Undefined Errors:

1. Undefined Processing Error

Internal error message and should not normally be issued.

File Errors:

1. Data Value Error

Error accessing a JEPES database table. Check tables's data.

2. Error Could Not Be Logged In Error File

Internal error message and should not normally be issued.

3. File Device Error

Internal error message and should not normally be issued.

4. File Is Already Open

Internal error message and should not normally be issued. Cancel job and rerun.

5. File Is Not Open

Internal error message and should not normally be issued. Cancel job and rerun.

6. File Usage Error

Internal error message and should not normally be issued.

7. Filename Is Invalid

Internal error message and should not normally be issued.

8. Improper Usage of Procedure

Internal error message and should not normally be issued.

9. Incorrect Usage of Function, Check Precondition

Internal error message and should not normally be issued.

10. Insufficient Memory

Storage error while retrieving information from a JEPES table. PC may not have sufficient memory to access the JEPES table. While at the DOS prompt, type "MEM" to determine the PC's available memory. JEPES needs a minimum of 517 kb of memory to run. To increase memory, a user can remove extraneous background programs. Also, refer to Appendix G, JEPES Installation Procedure, for information on increasing the PC's conventional memory.

11. Unidentified Processing Error

Internal error message and should not normally be issued.

Ada Errors:

1. Program Error

Internal message and should not normally be issued.

2. Constraint Error

Value is out-of-range. Check input data.

ORACLE Database Errors:

1. Cannot Return Number of Rows

Error returning the number of rows from a JEPES table. Use SQL*Plus to determine the number of rows in the table.

2. General Conversion Error

Error accessing the data in the JEPES ORACLE database. Check the data in the table.

3. Invalid Open Parameter

Invalid data in a JEPES table.

4. ORA-XXXX - ORACLE Database Error

Error accessing JEPES ORACLE database. Refer to the ORACLE Error Messages and Codes Manual.

5. Table Has Changed

A JEPES table's description; i.e., table's rows and columns, has changed. Use SQL*Plus to verify that the columns and rows had not changed.

6. View Already Open

Error accessing the data in the JEPES ORACLE database. Exit JEPES and reinitialize by following the steps in Paragraph 3.1.

SPECIFIC ERRORS

Data Errors:

- 1. Cannot Adjust Daily Manhours Available for Class X Start Day XXX End Day XXX Invalid value for Max Avail Manhours Per Day in Engineering_Support table.
- 2. Cannot Adjust Quantity Available for Class X

Error determining Facility Quantity using Engineering_Support table. This error occurs when applying host nation resources to unscheduled projects.

3. Computation Error While Processing BCN XX

Error accessing the Base_Complex table. Verify data in the table.

4. Computation Error While Processing Region XX

Error accessing the Climatic Factor table. Verify data in the table.

5. Computation Error While Processing Service X and Day XXX

Error determining engineering capabilities. Verify service and day in the following tables: Engineer_Unit_Capability table, Phase_In_Efficiency table, Attrition_Factor table, and Climatic_Factor table.

6. Component Size Cannot Be Zero

Service component size in Component table is set to zero. Update service component size in Component table to a value greater than zero.

7. Constraint Error Raised While Processing Day XXX

Error determining engineering capabilities. Verify data in Deployed_Eng_Sensitive_Unit table and Engineering_Unit_Capability table.

8. Constraint Error Raised While Processing Day XXX and Phase-In Day XXX

Error determining engineering capabilities. Verify input added to Engineer Phase-In Efficiency in Requirements Analysis function.

9. Constraint Error While Initializing Engineers Array

Error attempting to initialize the actual hours horizontal, actual hours vertical, and actual hours other in the Construction_Capability table. Verify data in the table.

10. Constraint Error While Processing Region XX

Error accessing the Climatic_Factor table. Verify data in the table.

11. Constraint Error While Retrieving from Engineers Array

Error accessing engineer information from Construction_Capability table.

12. Construction Policy Code Not Found for Base Complex Nbr: XX and Facility Category Code: XXXX

Invalid Construction Policy code in Base_Facility_Construction_Policy table.

13. Data Are Not Resident for BCN = XX

BCN is not the current BCN in Project table.

14. Error Applying Attrition for Day XXX and Service X

Error applying attrition per day for each engineer skill. Check time periods and percentages for assessing engineer attrition entered at the Engineer Attrition screen.

15. Error Calculating Attrition Dates

Error determining the first and last day to assess personnel attrition. Check time periods entered at the Engineer Attrition screen.

16. Error Computing Loss for Day XXX and Service X

Error determining the capability loss per day for each engineer skill. Check time periods and percentages for engineer attrition entered at the Engineer Attrition screen.

17. Error Computing Replacement for Day XXX and Service X

Error determining the personnel replacement per day for each engineer skill. Check time periods and percentages for engineer attrition entered at the Engineer Attrition Screen.

18. Facility Category Code Not Found XXXX

Facility Category code not found in Facility_Category table.

19. Invalid Asset Source Indicator

Asset source needs to be determined. Asset source can be U.S. host nation and/or facility substitution. Refer to Paragraph 5.3.2 for new OPLAN, and follow the instructions if this is a new OPLAN. Otherwise, try one of the following two solutions. While in JEPES go to the Apply Assets screen and enter the assets to apply (U.S. Facility Assets, HN Facility Assets, Facility Asset Substitution). Press F5 to store parameters only and then rerun the job. The other solution is to update Asset Source Indicator in the Operation table.

20. Invalid Austere Component Value: X

Invalid austere component in Component table.

21. Invalid Construction Policy Code Value

Invalid Construction Policy code Value in Base_Complex table or Base_Facility_Construction_Policy table (1-4 are valid codes). See Appendix H, Table H-2.

22. Internal Error - Position Exceeds Last Facility

Error accessing Facility_Category table.

23. Invalid Facility Priority

Invalid facility priority in Project table ('C,' 'E,' or 'N' are valid priorities). See Appendix H. Table H-5.

24. Invalid Force Utilization

Engineering force utilization indicator needs to be determined. Refer to Paragraph 5.3.2 for new OPLAN and follow the instructions if this is a new OPLAN. Otherwise, try one of the following two solutions. While in JEPES go to the Eng Force Utilization option in Requirements Analysis and enter whether to use Regional or Base Only. The other solution is to update engineering force utilization indicator in Operation table.

25. Invalid Fractionable Value: X

Invalid Fractionable in Component table ('W,' or 'F' are valid values). See Appendix H, Table H-6.

26. Invalid LSA Code

Invalid LSA Code in LSA_Export table. See Appendix H, Table H-8.

27. Invalid Percent To Be Shipped Data

Pct Shipped in Facility Category table is invalid.

28. Invalid Planning Factor Value: XXXXXX

Invalid planning factor type in General Planning Factor table. See Appendix H, Table H-9.

29. Invalid Priority

Invalid facility priority in Plan_Facility_Construction_Policy table ('C,' 'E,' or 'N' are valid priorities). See Appendix H, Table H-5.

30. Invalid Project Class

Invalid facility project class in Plan_Facility_Construction_Policy table or Project table. See Appendix H, Table H-7.

31. Invalid Self Sustainability Code Value: X

Invalid Self Sustainability code in Unit_Type table ('C,' 'V,' or 'N' are valid codes). See Appendix H.

32. Invalid Service Code

Invalid Service code in Construction_Capability table, Deployed_Eng_Sensitive_Unit table, Equipment_Planning_Factor table, Facility_Requirement table, General_Planning_Factor table, Project table, Unit_Equipment table or Unit_Type table. See Appendix H, Table H-14.

33. Invalid Service Code Value: X

Invalid Service code in Component table. See Appendix H, Table H-14.

34. Invalid Using Service Code: X

Invalid using service in Planner Input Requirement table. See Appendix H, Table H-14.

35. Invalid Value for Base Owner

Invalid value in Base Complex table.

36. Invalid Value in Rear Echelon Storage Base

Verify the rear echelon sorage bases in the Backup Supply table.

37. Invalid Value in Support Structure Index

Verify the support structure index in the JEPES table that was accessed. Support structure index is in the tables: Backup_Supply, Equipment_Planning_Factor and General_Planning_Factor.

38. Maximum Number of Equipment Planning Factor Rows is : XX. Current Number of Equipment Planning Factor Rows is : XXX

Number of records in Equipment_Planning table exceeds 75.

39. Maximum Number of Facility Component Rows is = XX. Current Number of Facility Component Rows = 40.

Facility_Component table contains more than 40 records. Reduce number of records in table.

40. Maximum Number of General Planning Factor Rows is : XX. Current Number of General Planning Factor Rows is : XXX

Number of records in General_Planning table exceeds 75.

41. Negative Climatic Factor

Negative Climatic Adjustment in Climatic_Factor table.

42. No Components Existed for the Component Codes Given

No component record exists for a given service code and service component code.

43. No Engineering Capability Data at BCN XX

No construction capability record for that BCN.

44. No Engineering Units Exist

Error attempting to initialize the actual hours horizontal, actual hours vertical, and actual hours other in the Construction_Capability table. Verify data in the table.

45. No Facilities for UTC

Error accessing records Facility_Requirement table. Table may be empty.

46. No Facility Category Records Found

No records exist in Facility_Category table.

47. No LOGSAFE Records Found

No records found in LOGSAFE_Interface table.

48. No LSA Records Found

No records found in LSA_Export table.

49. No Operations Records in Database

No records exist in the Operation table.

50. Null Constructing Service Is Not Allowed

Constructing service in Project table, Scheduled_Project table, or Unscheduled_Project table cannot be set to null.

51. Null Using Service Is Not Allowed

Using service in Project table, Scheduled_Project table, or Unscheduled_Project table cannot be set to null.

52. Processing Error While Processing Service X and Day XXX

Error determining engineering capabilities. Verify the following tables: Engineer_Unit_Capability table, Phase_In_Efficiency table, Attrition_Factor table, and Climatic Factor table.

53. Specified Component Not Found

No component record exists for a given service code and service component code.

54. Too Many Engineering Unit Capability Records -- Maximum is 150

Engineering_Unit_Capability table contains too many records for the Ada code to handle. Reduce record size to 150.

55. Undefined Processing Error Initializing Base Data for BCN

Error accessing the Base_Complex table. Verify data in the table.

56. Undefined Processing Error While Processing Day XXX

Error determining engineering capabilities. Verify data in Deployed_Eng_Sensitive_Unit table and Engineering_Unit_Capability table.

57. Undefined Processing Error While Processing Day XXX and Phase-In Day XXX

Error determining engineering capabilities. Verify input added to Engineer Phase-In Efficiency in Requirements Analysis function.

58. Undefined Processing Error While Processing Region XX

Error accessing the Climatic_Factor table. Verify data in the table.

ORACLE Database Errors:

1. ORA-0001 - Duplicate Value In Index

Attempting to insert a record that has the same unique key as an existing record. Refer to Oracle Error Messages Codes Manual for further assistance.

Algorithmic Errors:

1. Aggregate Daily Manhours Required > Maximum

Constraint error when aggregating the horizontal, vertical, and other manhours in the Unscheduled_Project table.

2. Aggregate Total Manhours Required > Maximum

Constraint error when calculating the total manhours required for applying the host nation resources.

3. Bases Within Region > Maximum Allowed

There are more than 99 bases in a region.

4. Computation Error - Aggregate Total Manhours Greater Than Allowable Maximum

Constraint error when determining the available total manhours for applying U.S. resources.

5. Computation Error for BCN: XX, Facility Category Code: XXXX, Facility Project Class: X and Service Code: X

Constraint/numeric error when applying assets.

6. Computation Error Substituting

Constraint error when calculating substitution hours.

7. Computation Error While Applying Resources

Constraint error when applying resources to required manhours.

8. Computation Error While Calculating Total Manhours

Constraint error when determining the available total manhours for applying U.S. resources.

9. Constraint Error Assigning the Project Record BCN: XX, Project Nbr: XXXXX Constraint error when assigning a war damage record.

10. Constraint Error BCN: XX, Project Nbr: XXXXX

Constraint error when applying resources to a war damage record.

11. Constraint Error Encountered. Unscheduled Counter = XX

Constraint error while attempting to apply U.S. resources.

12. Constraint Error While Calculating On Day

Constraint error when scheduling construction requirements.

13. Constraint Error While Calculating Requirements Numbers * Ratio

Constraint error occurred while applying host nation and contractor resources to generated requirements.

14. Constraint Error While Initializing Dates

Constraint error when scheduling construction requirements.

15. Contributing Hours > Contributing Engineering Capability

Contributing hours is greater than the contributing engineers capability when applying skill substitution.

16. Deficient Skill Required > What Contributing Skill Can Provide

Error applying partial manhours to a requirement for a full skill substitution or error applying full manhours for a requirement when fulfilling a partial skill substitution.

17. For Deficient Skill, Remaining Required Manhours < 0.1

Remaining current day required manhours must be > 0.1 when applying skill substitution.

18. Ratio Calculation Failed

Constraint error when determining the ratio of the maximum facility quantity provided by the host nation/contractor OVER the amount of facility construction required. The facility quantity and manhours available is in the Engineering_Support table and facility and manhours required are in Unscheduled_Project table.